Speedup of GrCUDA w.r.t. CUDA
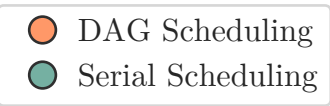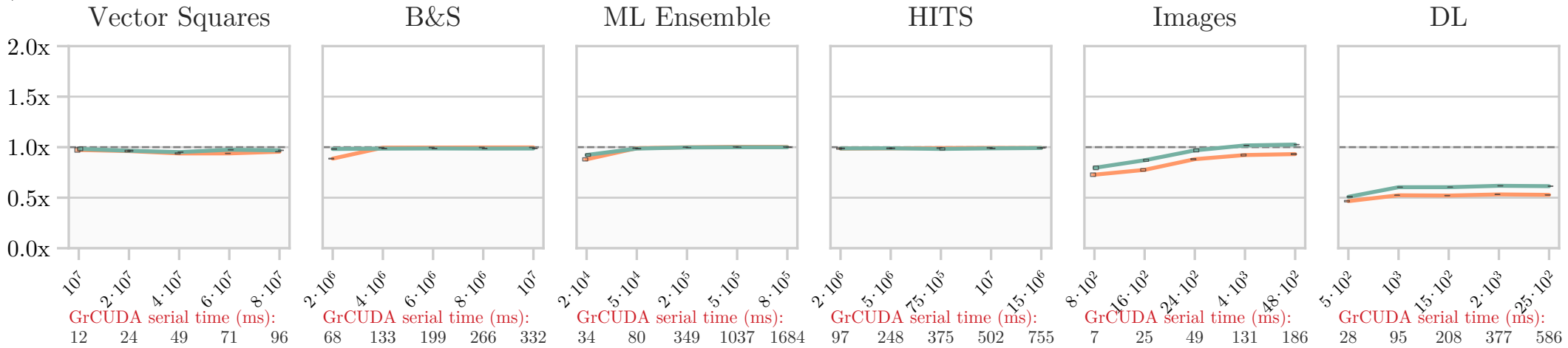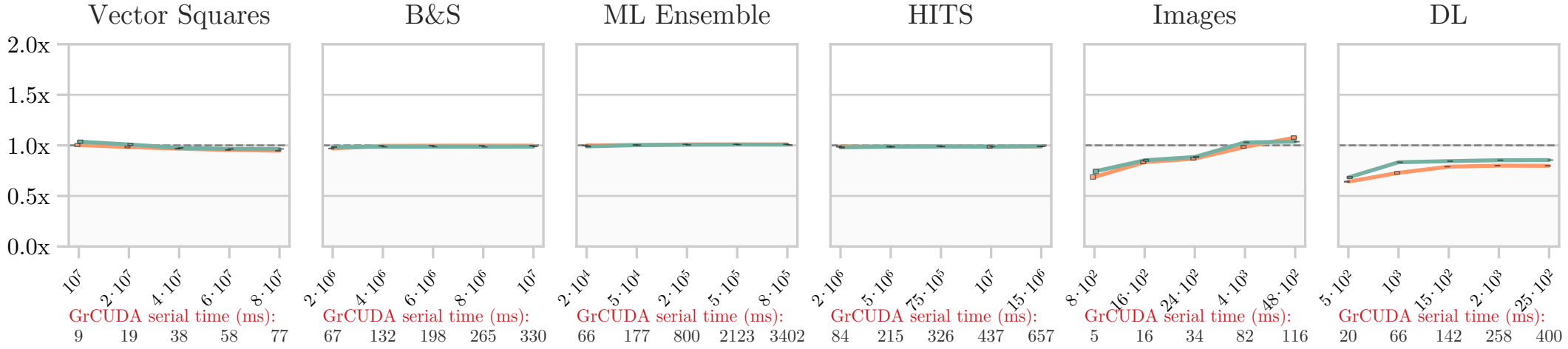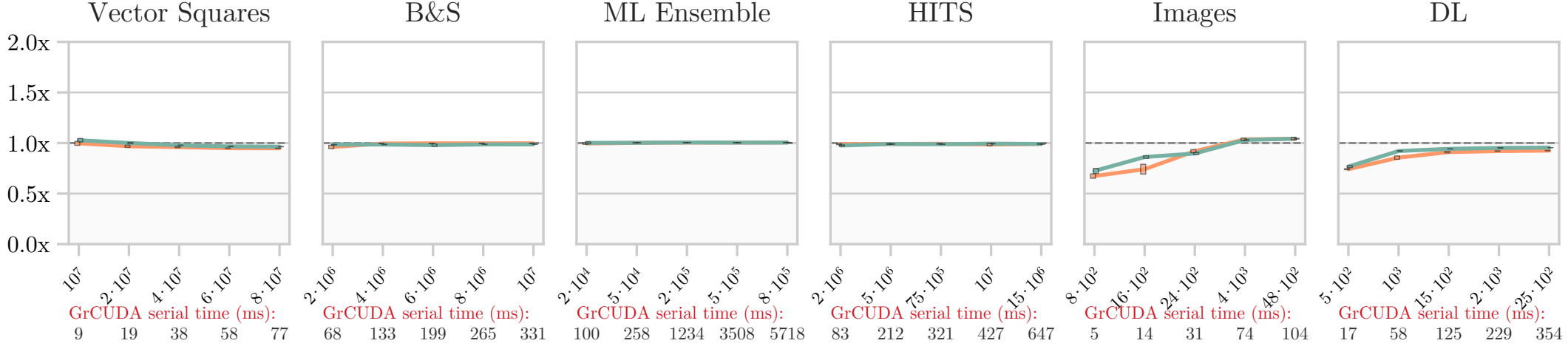
Speedup

Input number of elements

Legend: DAG Scheduling, Serial Scheduling

Block size: 1D=32, 2D=8x8

Vector Squares
GrCUDA serial time (ms): 12 24 49 71 96

B&S
GrCUDA serial time (ms): 68 133 199 266 332

ML Ensemble
GrCUDA serial time (ms): 34 80 349 1037 1684

HITS
GrCUDA serial time (ms): 97 248 375 502 755

Images
GrCUDA serial time (ms): 7 25 49 131 186

DL
GrCUDA serial time (ms): 28 95 208 377 586

Block size: 1D=128, 2D=8x8

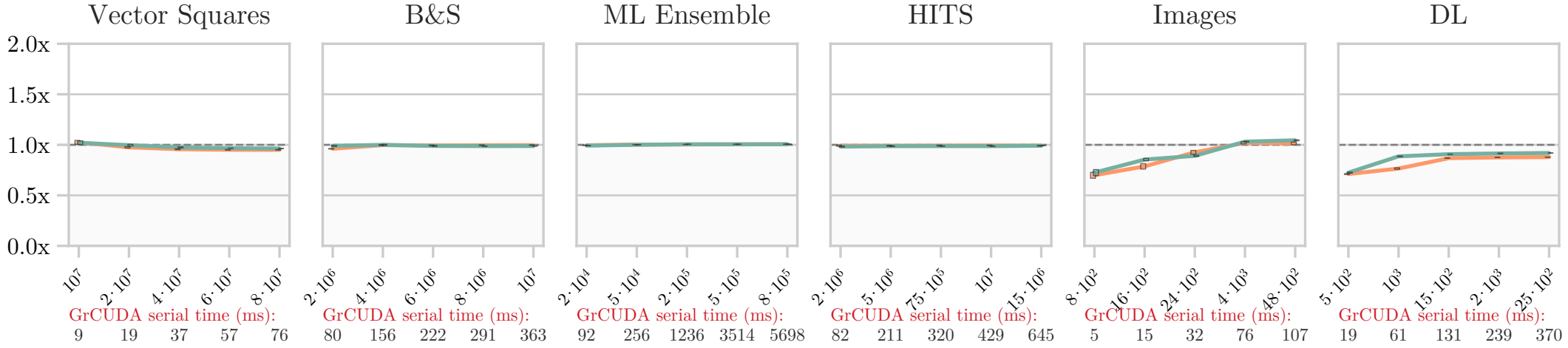### Vector Squares
GrCUDA serial time (ms): 9 19 38 58 77

B&S
GrCUDA serial time (ms): 67 132 198 265 330

ML Ensemble
GrCUDA serial time (ms): 66 177 800 2123 3402

HITS
GrCUDA serial time (ms): 84 215 326 437 657

Images
GrCUDA serial time (ms): 5 16 34 82 116

DL
GrCUDA serial time (ms): 20 66 142 258 400

Block size: 1D=256, 2D=8x8

Vector Squares
GrCUDA serial time (ms): 9 19 37 57 76

B&S
GrCUDA serial time (ms): 80 156 222 291 363

ML Ensemble
GrCUDA serial time (ms): 92 256 1236 3514 5698

HITS
GrCUDA serial time (ms): 82 211 320 429 645

Images
GrCUDA serial time (ms): 5 15 32 76 107

DL
GrCUDA serial time (ms): 19 61 131 239 370

Block size: 1D=1024, 2D=8x8

Vector Squares
GrCUDA serial time (ms): 9 19 38 58 77

B&S
GrCUDA serial time (ms): 68 133 199 265 331

ML Ensemble
GrCUDA serial time (ms): 100 258 1234 3508 5718

HITS
GrCUDA serial time (ms): 83 212 321 427 647

Images
GrCUDA serial time (ms): 5 14 31 74 104

DL
GrCUDA serial time (ms): 17 58 125 229 354